



U.S. Wheat & Barley Scab Initiative

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FY01 Final Performance Report (approx. May 01 – April 02)
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Cover Page

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Grant Number:	59-0790-1-076
Grant Title:	Fusarium Head Blight Research
FY01 ARS Award Amount:	\$ 10,611

Project

Program Area	Project Title	Requested Amount
Chem/Bio	Uniform Fungicide Trials to identify safe products that are effective against Fusarium head blight	\$ 9,900
	Total Amount Requested	\$ 9,900

Principal Investigator

Date

Project 1: Uniform Fungicide Trials to identify safe products that are effective against Fusarium head blight

1. What major problem or issue is being resolved and how are you resolving it?

Over the past years, Fusarium head blight (FHB) has become an increasingly important disease of wheat and barley in many areas of the US. Deployment of resistant cultivars is the most environmentally safe method of disease control. However, no highly resistant varieties to FHB are available and there is a growing need to identify safe products that are effective in controlling FHB.

A set of six core fungicide treatments including one standard, three experimental, and two biological treatments was tested on barley and spring wheat in Crookston, Minnesota in 2001 growing season. The same treatments were tested across wheat classes and environments in several states in the US.

2. What were the most significant accomplishments?

The results showed that all fungicides tested reduced significantly the severity of FHB on wheat. However, yield increase was only significant when wheat was treated with BAS 505 and BAS 505+Folicur.

All treatments reduced significantly FHB incidence and severity on barley except Folicur. No significant increase in yield, test weight, or kernel plumpness was observed

Include below a list of the publications, presentations, peer-reviewed articles, and non-peer reviewed articles written about your work that resulted from all of the projects included in the grant. Please reference each item using an accepted journal format. If you need more space, continue the list on the next page.

Toubia-Rahme H., and Motteberg C. 2001. Efficacy of foliar fungicides and biological control agents for the control of Fusarium head blight in spring wheat. Page 96, in: Proceedings of the 2001 National Fusarium Head Blight Forum, December 8-10, 2001. Cincinnati, KY, USA.